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JAPAN'S EXPANDING MANUFACTURING PRESENCE: 1982 UPDATE

Summary

The nonstop fall in the yen's value from mid-1981 through much of 1982 put a damper on Japanese investment in U.S. production facilities, as did the deepening domestic recession and sluggish business conditions in Japan. New plant construction and acquisition activity dropped last year to its lowest level since at least 1978, the start of the second upsurge in Japanese investment in the American manufacturing sector. This slowdown was just temporary, though. Since the start of 1983, a number of Japanese corporations have announced firm plans to manufacture in the United States. Other companies can be expected to join them as the American economy recovers and the yen appreciates. These new investments will add several thousand positions to the 70,000 or so jobs already generated by Japanese manufacturers in the United States.

Japan's 1982 Investments in U.S. Manufacturing Facilities

Japanese investment activity in the U.S. manufacturing sector, which had been on the upswing since 1978, slowed in 1982, curtailed by the continuing slide in the value of the yen, Japanese companies' deteriorating balance sheets, and depressed economic conditions in this country. Only 19 manufacturing companies in which Japanese corporate investors have a majority stake were set up or acquired last year, compared with 32 such investments in 1981, a new study by the Japan Economic Institute (JEI) indicates. Moreover, Japanese corporations obtained minority interests of at least 10 percent but less than 50 percent in just three U.S. businesses during 1982, down from eight the year before.

The depreciation of the yen, which dropped to an average ¥249 in 1982 after fluctuating in the ¥210-to-¥227 range during the 1978-81 period, was probably the major

obstacle to greater Japanese investment in U.S. manufacturing facilities last year. The fall in the yen's value had a double-barreled effect: it boosted the yen cost of building plants in this country or of acquiring existing American companies and, at the same time, cut the dollar cost of Japanese exports, thereby making onshore production a relatively less attractive way of serving U.S. markets. Potential first-time Japanese investors, particularly small- and medium-sized firms, were also deterred by two back-to-back years of mediocre business results, which dictated a wait-and-see attitude toward capital spending, especially in the depressed U.S. economy. For some Japanese companies, the deepening recession in the United States was the determining factor, forcing them to indefinitely shelve or at least temporarily postpone firm plans for U.S. plants.

The 22 American manufacturing companies owned wholly or in part by Japanese investors that were identified in JEI's 1982-update survey generally match the profile of Japan's earlier manufacturing investments in the United States, drawn from the 1980 benchmark study (see JEI Report No. 15, April 17, 1981) and the 1981 update (see JEI Report No. 10A, March 12, 1982). For example, like their predecessors, Japanese corporations establishing a production base in the United States during 1982 favored new plant construction over the purchase of existing American firms, but for the second year in a row acquisitions were relatively more prevalent than in the period through 1980. Instead of being outnumbered two to one by new investments, acquisitions accounted for 10 of the 22 companies joining the ranks of Japanese-affiliated U.S. manufacturing businesses in 1982, including the purchase by Bridgestone Tire Co., Ltd. of Firestone Tire & Rubber Co.'s radial truck tire plant. One factor tilting the investment mix toward acquisitions in the 1980s is that Japanese manufacturers already turning out products in the United States are starting to follow the lead of the trading companies and expand their manufacturing presence through takeovers. Sony Corp. and Kirin Brewery Co., Ltd. were last year's major examples of this new breed of Japanese investor.

With new plant construction still the preferred investment route for Japanese investors moving into the U.S. manufacturing sector for the first time and with most acquisitions involving the purchase of single-plant companies, it is no surprise that the 22 American production operations newly set up or bought by Japanese businesses in 1982 had only 24 plants onstream or under construction at year end. The vast majority of established Japanese-owned manufacturing ventures still produce at just one location, but a growing number of them are building additional plants as they outgrow existing production facilities or expand into related product lines. Examples of this trend in 1982 were the new factory Mitsubishi Consumer Electronics America, Inc. opened and the plant NEC Electronics U.S.A. Inc. had under construction.

California continued to attract a disproportionate share of Japanese manufacturing investment during 1982, including new investments as well as acquisitions. Five of the 24 plants in operation or under construction at year end are located there, as are the second plants of Mitsubishi Consumer Electronics and NEC Electronics. New Jersey and Georgia were also highly successful in drawing Japanese-owned factories, with each adding two new plants to their rolls. So was Pennsylvania with one new investment and an acquisition. New plant construction in Massachusetts, Missouri and Oregon and acquisitions in Michigan, New Hampshire and Washington prove once again that, outside of California, Japanese corporate investors in the United States have not shown a marked preference for Sunbelt or southeastern U.S. production locations, although Florida as well as Tennessee picked up a Japanese-owned factory through acquisition.

One area where the 19 majority-owned companies new to the U.S. manufacturing sector differ from established firms is in employment scale, since they employ or expect

to hire when operational smaller work forces on average than earlier arrivals. Nine of the 19 have or project a payroll of 49 people or less, compared with only one-fourth of the companies identified in JEI's benchmark study. Four employ between 50 and 99 workers or have targeted employment in that range, while three have a work force of 100-to-199 people. In contrast, just two firms have or forecast employment in the 300-to-500 range, a level exceeded only by Bridgestone Tire Manufacturing (U.S.A.), Inc. with 900 employees. Still, the 16 companies already in operation and Mitsubishi Consumer Electronics' second plant have created or saved close to 2,300 jobs for American workers. Moreover, another 700 jobs will be generated when the three firms with plants under construction and the new NEC Electronics facility go onstream later this year or in 1984.

Japan's Manufacturing Holdings in the United States: The New Tally

At the end of 1982, Japanese corporate investors had a controlling interest in 292 U.S. manufacturing companies, including Nissan Motor Manufacturing Corp. U.S.A. and four other firms that were still in the plant-construction stage. Among the largest operations, whether measured by investment, employment, sales or all three indicators, were Alumax Inc., an integrated aluminum manufacturer jointly owned by Mitsui & Co., Ltd., Nippon Steel Corp. and AMAX Inc. that has 55 domestic plants; Honda of America Manufacturing, Inc., which started assembling cars at its Ohio plant in November and expects to employ 2,000 people by mid-1984; Kyocera International, Inc., a California-based maker of ceramic packages for integrated circuits; Matsushita Industrial Co., a manufacturer of color television sets and microwave ovens located in the Chicago suburbs; Nissan, slated to begin operation of its Tennessee pickup truck plant this summer and to employ 2,650 workers at full capacity in mid-1984; Sanyo Mfg. Corp., which produces color television sets and microwave ovens in Arkansas; color television set maker Sony Corp. of America, based in California; Sony Magnetic Products Inc. of America, an Alabama manufacturer of cassette tapes; and Whitney-Fidalgo Seafoods, Inc., an Alaska and Washington fish processor owned by Kyokuyo Co., Ltd. In addition to these 292 U.S. manufacturing ventures, which are primarily wholly owned subsidiaries, Japanese corporations held minority interests in 26 other American manufacturers, including shares in two companies on Fortune's list of the 1,000 largest domestic firms, Harnischfeger Corp. and Munsingwear, Inc.

The 318 U.S. manufacturing companies owned wholly or in part by Japanese investors had 458 plants in operation or under construction at year-end 1982. California, home to 124 Japanese-affiliated factories, continued to top the state list of plant sites with its heavy concentration of facilities making industrial and consumer electronics products. In the number-two spot was Alaska, with fish-processing plants accounting for most of its 35 factories. Next on the list were New Jersey, the site of 24 manufacturing concerns owned by Japanese companies, Texas, the location of 23 plants, and Washington, where 20 factories were in operation. In sixth place was Georgia with 18 manufacturing facilities, followed by Illinois and North Carolina, each of which had attracted 17 plants. Other states that were successful in drawing relatively large numbers of Japanese investors to in-state plant sites were New York (16), Pennsylvania (14), Ohio (13), Michigan (12) and Tennessee (11).

Color television sets, stereo equipment, microwave ovens, integrated circuits, telephone equipment, capacitors, bearings and machine tools are among the product lines where Japanese companies have the largest number of U.S. manufacturing facilities. In deciding to supply these products from onshore plants rather than from factories in Japan, Japanese exporters have been influenced in varying degree by the need to cut transportation costs, streamline distribution, maintain closer customer contact and offset the yen's appreciation. For many makers of these products, though, the threat of a protectionist backlash or the erection of trade barriers has tipped the scales in favor of

U.S. production. In other manufacturing lines where Japanese investors are well represented, like fish processing, lumber and wood products, and certain processed food products, the availability of raw materials has been a major drawing card. Makers of plastic products have been attracted to this country by its less expensive petrochemical derivatives, while lower utility rates and other U.S. cost advantages have no doubt made AlumaX a good investment for Mitsui and Nippon Steel. Other Japanese companies, facing limited opportunities for growth at home, have moved into the U.S. manufacturing sector to boost revenues and income. Finally, a small but increasing number of parts suppliers, especially in the automotive field, are following Japanese end users of their products to the United States and also building or acquiring domestic manufacturing facilities.

Although the number of U.S. manufacturing companies owned wholly or in part by Japanese corporations is modest in comparison with Canadian and European investments, these firms are starting to have a noticeable impact in creating or maintaining jobs for Americans, both directly and indirectly through their purchases of goods and services. The 292 majority-owned manufacturing concerns currently in operation already have an estimated 65,600 people on their payrolls. Another 4,400 or so positions will be added to this total later this year and in 1984 as Honda and Nissan gear their automotive assembly plants up to full-capacity operation and plants now under construction go onstream. Moreover, with some new firms still hiring and an economic recovery on the horizon, other Americans will undoubtedly find jobs in Japanese-owned manufacturing plants within the year.

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JEI's Investment Survey

The Japan Economic Institute's study of U.S. manufacturing companies owned by or affiliated with Japanese investors was limited to firms that had plants in operation or under construction on December 31, 1982. This cut-off date eliminated a number of companies that had definite plans to build manufacturing facilities in the United States but had not broken ground by year end, as well as several acquisitions that had not been finalized.

The results of the 1982-update survey are contained in three appendices, which also include the information from the 1981 update. The main appendix gives, in alphabetical order, the full name of each U.S. manufacturing company owned wholly or in part by Japanese investors; the location of its plant or plants; the full name of what is known as the company's ultimate beneficial owner(s); the share of stock held by the owner(s); whether the company was a new investment or an acquisition; the company's major product line(s); the approximate or actual number of people employed by the company, if available; and when the company began production or, in the case of acquisitions, when the company was bought by Japanese investors. The second appendix presents a state-by-state listing of plant locations, while the third one groups the products made in terms of four-digit Standard Industrial Classification codes.

A fourth appendix, new this year, lists companies that have gone out of business and plants that have closed since the 1980 benchmark study and the 1981 update were published. This information was obtained from publicly available sources. No attempt was made to resurvey all the previously listed companies.

Appendix 1: Alphabetic Listing of U.S. Manufacturing Affiliates of Japanese Companies

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
•ALCOA-WEC Communications Corp.	Sidney, OH	Nippon Electric Co., Ltd.	49%	New	Satellite television receiving systems	15	1982
ATR Wire and Cable Co.	Danville, KY	Aluminum Co. of America Tokyo Rope Manufacturing Co., Ltd.	51 60	Acquired	Steel cord/braid wire for tires	420	1981
		Mitsubishi Corp.	20				
		C. Itoh & Co., Ltd.	20				
Alloy Tool Steel Inc.	Santa Fe Springs, CA	Wissco Iwai Corp.	33	New	Steel processing	30	1974
		Nippon Koshuho Steel Co., Ltd.	35				
Alloy Tool Steel of Texas Inc.	Rutchtown, TX	Wissco Iwai Corp.	18	New	Steel processing	5	1981
		Nippon Koshuho Steel Co., Ltd.	18				
Alpha Biochemical Corp.	Richland, WA	Kanegafuchi Chemical Industry Co., Ltd.	100	New	Binder for fish feed	20	1982
		Nitsui & Co., Ltd.	45	Acquired			1974
Aluman Inc.		Nippon Steel Corp.	5				
		AMAX Inc.	50				
Aluman Extrusions, Inc.	Catsvane, NC	Aluman Inc.	100	New	Aluminum extruded shapes	n.e.	1981
Aluman Fabricated Products, Inc.	Tempe, AZ	Aluman Inc.	100	Acquired	Aluminum products for housing aftermarket	n.e.	1981
Aluman Fabricated Products, Inc.	Anaheim, CA	Aluman Inc.	100	Acquired	Aluminum products for housing aftermarket	n.e.	1981
Aluman Fabricated Products, Inc.	Sacramento, CA	Aluman Inc.	100	Acquired	Aluminum products for housing aftermarket	n.e.	1981
Kawneer Co., Inc.	Springdale, AR	Aluman Inc.	100	New	Architectural aluminum products	n.e.	1981
Amako-International Enzyme Co., Inc.	Troy, VA	Amako Pharmaceutical Co., Ltd.	47.5	New	Enzymes	7	1981
		Boehringer International Enzyme Inc.	47.5				
American Industries Co., Inc.	Guasti, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar, cooking wines	75	1981
American Industries Co., Inc.	San Francisco, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar, cooking wines, sauces		1981
American Industries Co., Inc.	Watsonville, CA	Nakano Vinegar Co., Ltd.	100	Acquired	Vinegar		1981
Amesack, Inc.	Stockton, CA	Chuokun Seibei Inc.	100	New	Rice crackers	11	1981
Ballemer Parts Industries Inc.	Marysville, OH	Honda Motor Co., Ltd.	80	New	Automotive seat assemblies, exhaust silencer systems	200	1982
		Sankei Gihan Kogyo Co., Ltd.	10				
		Tokyo Saito Co., Ltd.	10				
Bering Sea Fisheries, Inc.	Mouth of Yukon, AK	Marubeni Corp.	25	Acquired	Frozen fish	40	1972
•Bio Kyowa Inc.	Cape Girardeau, MO	Kyowa Hakko Kogyo Co., Ltd.	100	New	Lysine (feedstuff amino acid additive)	60*	1984*
•Bridgestone Tire Manufacturing (U.S.A.), Inc.	LaVergne, TN	Bridgestone Tire Co., Ltd.	100	Acquired	Radial truck tires	900	1982
Bumbeide of Hawaii Ltd.	Honolulu, HI	Bumbeide Confectionery Co., Ltd.	100	New	Bakery products	8	1965

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
CTV Corp.	San Marcos, CA	Taiyo Yuden Co., Ltd.	100	New	Axial capacitors	40	1981
Caribe Isoprene Corp.	Penulas, PR	Nippon Isen Co., Ltd.	50	New	Isoprene monomer, dicyclopentadiene, piperylene	50	1975
Caribe Tuna Inc.	Ponce, PR	Mitsubishi Corp.	40		Canned fish	500	1981
Cast Forge Co.	Howell, MI	Nippon Light Metal Co., Ltd.	20	Acquired	Aluminum wheels/other die-cast automotive parts	100	1982
Cathra International Corp.	St. Paul, MN	Kelsey-Rayco Co.	80		Medical diagnostic equipment	22	1981
Chickasha Cotton Oil Co.	Casa Grande, AZ	Gomse Sangyo, Inc.	30	Acquired			
Chickasha Cotton Oil Co.	Clinton, OK	Tokyo Lease Co., Ltd.					
Chickasha Cotton Oil Co.	Marlingen, TX	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Chickasha Cotton Oil Co.	Lamesa, TX	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Coca-Cola Bottling Co.	Salem, NH	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
Concise Casting Corp.	Hayward, CA	Toyo Menka Kaisha, Ltd.	100	Acquired	Cottonseed oil	70	1981
		Kirin Brewery Co., Ltd.	100	Acquired	Soft drinks	187	1982
		Hitachi Metals, Ltd.	100	Acquired	Aluminum castings	95	1981
Daiichiya Lov's Bakery Inc.	Honolulu, HI	Hitachi Metals, Ltd.	100	Acquired	Aluminum castings	95	1981
Daiwa Golf Co.	Gardena, CA	Daiichiya Baking Co., Ltd.	100	Acquired	Bakery products	240	1981
Diamond Plastics Corp.	Grand Island, NE	Daiwa Seiko, Inc.	100	New	Golf clubs	20	1981
Diamond Plastics Corp.	Lubbock, TX	Mitsubishi Corp.	100	Acquired	Polyvinyl chloride pipes	115	1982
Dutch Harbor Seafoods Co., Inc.	Dutch Harbor, AK	Mitsubishi Corp.	100	Acquired	Polyvinyl chloride pipes	100	1982
		Nippon Suisan Kaisha Ltd.	25	New	Frozen fish	100	1976
Economic Salon, Ltd.	New York, NY	Keisai Salon Co., Ltd.	100	New	Periodicals publishing	10	1971
Enway Inc.	Clackamas, OR	Restaurant Skylark Co., Ltd.	51	New	Frozen potato products	10	1982
First Metals, Inc.	Houston, TX	Toyo Menka Kaisha, Ltd.	100	New	Steel processing	22	1978
Forman Industries Inc.	Hayward, CA	Kawasho Corp.	100	Acquired	Sheet-metal ducts	35	1979
Fotomat Corp.	St. Louis, MO	Konishiroku Photo Industry Co., Ltd.	20	Acquired	Photographic chemicals	30	1982
Fotomat Corp.	Springdale, OH	Konishiroku Photo Industry Co., Ltd.	20	Acquired	Kiosks	10	1982
Fuji Cone Inc.	Clinton, NC	Fuji Cone Works Ltd.	50	New	Paper cones for stereo speakers	85	1981
Fujitec Industries, Inc.	Lebanon, OH	International Jensen Inc.	50				
		Fujitec Co., Ltd.	100	New	Elevators, escalators	500*	1983*
Halco Fence & Wire Co.	Dallas, TX	G. Itoh & Co., Ltd.	100	Acquired	Chain link	200	1980
Harbor Seafood Co., Inc.	Wrangell, AK	Alaska Pulp Co., Ltd.	100	Acquired	Canned/frozen fish	80	1974
Harnischfeger Corp.	Cedar Rapids, IA	Kobe Steel, Ltd.	10	Acquired	Hydraulic-truck/rough-terrain cranes	3,000	1981
Harnischfeger Corp.	Oak Creek, WI	Kobe Steel, Ltd.	10	Acquired	Overhead traveling cranes, hoists, material-handling systems		1981
Harnischfeger Corp.	W. Milwaukee, WI	Kobe Steel, Ltd.	10	Acquired	Overhead traveling cranes, mining shovels, draglines		1981
High Voltage Breakers, Inc.	Worcester, MA	Hitachi, Ltd.	67	New	Circuit breakers for power plants/ transmission lines	15	1982
Hitachi Consumer Products of America Inc.	Anaheim, CA	General Electric Co.	33				
		Hitachi, Ltd.	100	New	Projection color television sets	100	1982
Honma Golf, Inc.	Honolulu, HI	Honma Corp.	100	New	Golf clubs	36	1978

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
IMC Systems & Controls Corp.	Santa Clara, CA	Izumi Banki Corp.	100	New	Relays, sockets, switches/other electrical industrial components	70	1975
IES American Corp.	Gardens, CA	Izumoto Seiko Co., Ltd.	100	New	Ball bearings	18	1974
International Leadframe Corp.	Sunnyvale, CA	Mitsui Mfg. Co., Ltd.	100	New	Lead frames for integrated circuits	21	1980
International Titanium Inc.	Woods Lake, WA	Ishizuka Research Institute	50	New	Titanium sponge	120	1982
		Mitsui & Co., Ltd.	30				
Kato Spring of Georgia Inc.	Worcester, MA	Kato Spring Works Co., Ltd.	100	New	Precision springs	8	1981
Kel-Am, Inc.	Eldon, MO	Kel Corp.	100	New	Connectors	30	1978
Kay Pharmaceuticals, Inc.	Miami, FL	Mitsubishi Chemical Industries, Ltd.	10	Acquired	Ethical pharmaceuticals	n.a.	1979
Kodiak King Crab, Inc.	Jumeau, AK	Marubeni Corp.	n.a.	New	Frozen fish	300	1973
		Ocean Beauty Seafoods Inc.	n.a.				
Kodiak King Crab, Inc.	Kodiak, AK	Marubeni Corp.	n.a.	New	Canned/frozen fish		1973
		Ocean Beauty Seafoods Inc.	n.a.				
Lafayette Metal Service Corp.	Long Beach, CA	C. Itoh & Co., Ltd.	81	Acquired	Steel processing	20	1982
LeBlond Makino Machine Tool Co.	Cincinnati, OH	Fuova Italsider S.p.A.	19				
		Makino Milling Machine Co., Ltd.	51	Acquired	Numerically controlled lathes, machining centers, numerical controls	850	1981
		LeBlond Inc.	49				
MCI Inc.	Fort Lauderdale, FL	Sony Corp.	100	Acquired	Recording studio equipment	384	1982
MCI Optinix Inc.	Morrisstown, NJ	Mitsubishi Chemical Industries, Ltd.	100	Acquired	X-ray intensifying screens for medical use	15	1981
Machine Specialties Co.	Lincoln, RI	Bando Chemical Industries, Ltd.	100	Acquired	Pulleys	30	1979
Master Fence Fittings Inc.	La Habra, CA	C. Itoh & Co., Ltd.	100	Acquired	Fittings for metal fencing	300	1977
Matsushita Electric Components Co.	Palo Alto, CA	Matsushita Electric Industrial Co., Ltd.	100	New	Integrated circuits	35	1983
Matsushita Electric of Puerto Rico, Inc.	Caguas, PR	Matsushita Electric Industrial Co., Ltd.	100	New	Stereo speakers, record changers, speaker boxes, motors for phonographs/audio equipment	720	1983
Megatool Inc.	Buena Park, CA	Union Tool Co., Ltd.	51	New	Carbide drills	17	1982
Mumorex DIC Corp.	Santa Clara, CA	Dainippon Ink & Chemicals Inc.	43	Acquired	Toner/developer for copiers, duplicators/printers	35	1981
		Burroughs Corp.	57				
Mitsubishi Consumer Electronics America, Inc.	Santa Ana, CA	Mitsubishi Electric Corp.	100	New	Projection color television sets	80	1982
Nitutoyo Corp.	City of Industry, CA	Nitutoyo Mfg. Co., Ltd.	100	New	Calipers, micrometers	30	1979
Norpac, Inc.	Cordeiro, AK	Nippon Seisen Kaisha, Ltd.	49	Acquired	Canned fish	100	1973
		Mitsui & Co., Ltd.	49				

<u>Company</u>	<u>Plant Location</u>	<u>Parent</u>	<u>Share</u>	<u>New or Acquired</u>	<u>Product Line</u>	<u>Employees</u>	<u>Year Plant Opened or Acquired</u>
Munsingwear, Inc.	Guis, AL	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Women's intimate apparel	3,600	1981
Munsingwear, Inc.	Hamilton, AL	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Synthetic fabrics		1981
Munsingwear, Inc.	Montgomery, MI	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Men's/boys' shirts, underwear, nightwear		1981
Munsingwear, Inc.	New Albany, MS	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Women's intimate apparel		1981
Munsingwear, Inc.	Fairmont, NC	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Men's/boys' shirts, underwear, nightwear		1981
Munsingwear, Inc.	Red Spring, NC	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Cotton fabrics		1981
Munsingwear, Inc.	Romney, OK	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Men's/boys' shirts, underwear, nightwear		1981
Munsingwear, Inc.	Athens, TX	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Women's intimate apparel		1981
Munsingwear, Inc.	Paris, TX	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Women's intimate apparel		1981
Munsingwear, Inc.	Ashland, WI	Toyoko Co., Ltd. Descente Ltd. C. Itch & Co., Ltd.	10 10 10	Acquired	Men's/boys' shirts, underwear, nightwear		1981
•HEC Electronics U.S.A. Inc.	Roseville, CA	Wippon Electric Co., Ltd.	100	New	Integrated circuits	200*	1982*
•HEC Information Systems Inc.	Bonborough, MA	Wippon Electric Co., Ltd.	100	New	Computers/peripheral equipment	425*	1984*
•Niptune Packing Corp.	Nayaques, PR	Niteul & Co., Ltd.	100	Acquired	Canned fish	500	1973
•Nichino Northwest, Inc.	Everson, WA	Nichino Co., Ltd. Northwest Net & Twine, Inc.	70 30	New	Gill nets	8	1982
Nikko Wolverine Inc.	Dearborn Heights, MI	Nippon Mining Co., Ltd. C. Itch & Co., Ltd. NBF Inc.	51 29 20	Acquired	Titanium/zirconium tubes/pipe	60	1981
Nintendo of America, Inc.	Seattle, WA	Nintendo Co., Ltd.	100	New	Video game machines	40	1982
North American Brine Resources	Kingfisher County, OK (three sites)	United Resources Industry Co., Ltd. Niteul & Co., Ltd. Nard Oil Co.	50 10 40	New	Iodine	5	1982

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
North Pacific Processors Inc.	Cordova, AK	Narubeni Corp.	100	New	Canned/frozen fish	450	1972
North Pacific Processors Inc.	Kodiak, AK	Narubeni Corp.	100	New	Canned/frozen fish		1972
North Pacific Processors Inc.	Kenai, AK	Narubeni Corp.	100	New	Canned/frozen fish		1972
Nutrilac Inc.	Van Buren, AR	Mitsui & Co., Ltd.	100	Acquired	Feed additives	115	1981
Nutrilac Inc.	Fresno, CA	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1981
Nutrilac Inc.	Louisville, KY	Mitsui & Co., Ltd.	100	Acquired	Feed additives		1981
Olympic Wood Products Inc.	Shelton, MA	Yakuchi Lumber Co., Ltd.	90	New	Lumber	15	1982
		Kanda Corp.	40				
		Aika Kogyo Co., Ltd.	10				
Optical Information Systems Inc.	Stamford, NY	Mitsubishi Chemical Industries, Ltd.	100	Acquired	Semiconductor laser devices/sub-systems	100	1981
Orange Bakery Inc.	Irvine, CA	Shoon Automatic Machinery Co., Ltd.	100	New	Bakery products	50	1979
Orient Shimasaki Chemical Corp.	Newark, NJ	Shimasaki Corp.	n.a.	New	Nigrosins (black dye)	n.a.	1981
		Orient Chemical Industries Co., Ltd.	n.a.				
Pace Products Inc.	Dallas, TX	Fuji Koki Mfg. Co., Ltd.	50	New	Expansion valves for automotive air conditioning systems	15	1982
		Virginia Chemicals Inc.	50				
Pacific Propeller, Inc.	Exeter, MA	Nimble Co., Ltd.	60	Acquired	Aircraft propellers	60	1982
Pearl International Corp.	Nashville, TN	Pearl Musical Instrument Co.	100	New	Musical drums	45	1979
Peter Pan Seafoods Inc.	Billingham, AK	Wichiro Gyogyo Kaisha, Ltd.	100	Acquired	Canned fish	90	1979
Peter Pan Seafoods Inc.	King Cove, AK	Wichiro Gyogyo Kaisha, Ltd.	100	Acquired	Canned/frozen fish	290	1979
Peter Pan Seafoods Inc.	Port Hallett, AK	Wichiro Gyogyo Kaisha, Ltd.	100	Acquired	Frozen fish	120	1979
Pioneer Video, Inc.	Carson, CA	Pioneer Electronic Corp.	100	Acquired	Video discs	150	1982
Rakuyo Ken U.S.A. Inc.	Honolulu, HI	Rakuyo Shokuhin Co., Ltd.	100	New	Shimai	8	1981
Ricoh Electronics, Inc.	San Jose, CA	Ricoh Co., Ltd.	100	New	Dry toner for copiers	50	1982
S & B International Corp.	Torrance, CA	S & B Shokuhin Co., Ltd.	100	New	Seasoning mixes	4	1975
SME Manufacturing Inc.	Placentia, CA	Shima Munen Kogyo Co., Ltd.	100	Acquired	Connectors	100	1981
Sensh Manufacturing Corp.	San Diego, CA	Sensh Industrial Co., Ltd.	80	New	Refrigerator parts	27	1981
		Sony Electric Co., Ltd.	20				
Shindo International, Inc.	New York, NY	Shindo Shokuhin Seikan E.E.	100	New	Color separation, offset printing	n.a.	1978
Sierrecin Glass	Sylmar, CA	Asahi Glass Co., Ltd.	50	New	Glass transparencies for aircraft	50	1982
Transparencies Inc.		Sierrecin Corp.	50				
Sony Magnetic Products Inc. of America	Larado, TX	Sony Corp.	100	New	Audio cassette tapes	48	1979
Southern Metal Service, Inc.	Gulfport, MS	Komatsu-Gosha, Ltd.	100	New	Steel processing	25	1973
Stanley Electric U.S. Co., Inc.	London, OH	Stanley Electric Co., Ltd.	100	New	Automotive/motorcycle lighting equipment	50	1982

Company	Plant Location	Parent	Share	New or Acquired	Product Line	Employees	Year Plant Opened or Acquired
TMS Mills, Inc.	Spartanburg, SC	Tsuzuki Spinning Co., Ltd.	100	New	Cotton-blend sheeting	100	1982
•TYK Swank Refractories Co.	Irvona, PA	Tokyo Yogyo Co., Ltd.	100	Acquired	Steel industry refractory products	30	1982
Templock/AFM Inc.	Carpinteria, CA	Nippon Automatic Fine Machinery Co., Ltd.	39	New	Heat-shrinkable plastic material application machinery	n.a.	1981
		Marubun Corp.	10				
Thin Film Technology Corp.	North Mankato, MN	Templock Corp.	51				
		Susumu Co., Ltd.	100	New	Thin-film resistive electronic components	30	1982
Togiak Fisheries, Inc.	Togiak, AK	Marubeni Corp.	Majority share	Acquired	Canned/frozen fish	140	1972
•Tokai of America Inc.	Rancho Cucamonga, CA	Tokai Seiki Co., Ltd.	100	New	Disposable cigarette lighters	40	1982
•Tomoe-gawa (U.S.A.) Inc.	Wheeling, IL	Tomoe-gawa Paper Co., Ltd.	100	New	Toner/developer/other consumable supplies for photocopying industry	50	1980
Totaku America Corp.	Compton, CA	Totaku Industries Inc.	100	New	Plastic/rubber flexible hose	30	1974
•Toyojama Co., Ltd.	York, PA	Japan Automatic Machine Co., Ltd.	50	New	Components for automatic crimping machinery	15*	1983*
		Oriental Terminal Products Co., Ltd.	50				
UGM, Inc.	Santa Clara, CA	Tokyo Tan-Ichi Co., Ltd.	100	New	Metal stampings for integrated circuit lead frames	9	1976
•U.S. Fuji Electric Inc.	Piscataway, NJ	Fuji Electric Co., Ltd.	100	New	Photo-sensitive drums for copiers	30	1983
•US JVC Corp.	Elmwood Park, NJ	Victor Co. of Japan, Ltd.	100	New	Color television sets	45	1982
USR Optinix Inc.	Hackettstown, NJ	Mitsubishi Chemical Industries, Ltd.	100	Acquired	Fluorescent material for cathode ray tube displays	30	1981
Union Inc.	Costa Mesa, CA	Union Trading Co., Inc.	100	New	Instant noodles	120	1976
Universal Seafoods Ltd.	Dutch Harbor, AK	Nippon Suisan Kaisha, Ltd.	47	New	Frozen fish	100	1975
Universal Seafoods Ltd.	Redmond, WA	Wippon Suisan Kaisha, Ltd.	47	New	Frozen fish	200	1975
VHD Disc Manufacturing Co.	Irvine, CA	Victor Co. of Japan, Ltd.	25	New	Video discs	150	1981
		Matsushita Electric Industrial Co., Ltd.	12.5				
		General Electric Co.	25				
		Thorn EMI Ltd.	37.5				
Wards Cove Packing Co., Inc.	Alitak, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish	1,500	1973
Wards Cove Packing Co., Inc.	Ekuk, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Excursion Inlet, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Icy Cape, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Kenai, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Ketchikan, AK	Marubeni Corp.	Minority share	Acquired	Canned fish		1973
Wards Cove Packing Co., Inc.	Naknek, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973
Wards Cove Packing Co., Inc.	Port Bailey, AK	Marubeni Corp.	Minority share	Acquired	Canned/frozen fish		1973

<u>Company</u>	<u>Plant Location</u>	<u>Parent</u>	<u>Share</u>	<u>New or Acquired</u>	<u>Product Line</u>	<u>Employees</u>	<u>Year Plant Opened or Acquired</u>
Western Alaska Fisheries, Inc.	Kodiak, AK	Taiyo Fishery Co., Ltd.	100	New	Canned/frozen fish	35	1963
Whitney-Fidalgo Seafoods, Inc.	Anchorage, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned/frozen fish	3,000	1973
Whitney-Fidalgo Seafoods, Inc.	Dutch Harbor, AK	Kyokuyo Co., Ltd.	98	Acquired	Frozen fish		1973
Whitney-Fidalgo Seafoods, Inc.	Kodiak, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Naknek, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Petersburg, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Port Graham, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Uyak, AK	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Anacortes, WA	Kyokuyo Co., Ltd.	98	Acquired	Canned fish		1973
Whitney-Fidalgo Seafoods, Inc.	Seattle, WA	Kyokuyo Co., Ltd.	98	Acquired	Frozen fish		1973

n.a. not available

* Projected

• Previously unlisted plants that went into operation during 1982 or were under construction on December 31, 1982, as well as acquisitions that were finalized in 1982.

Appendix 2: U.S. Manufacturing Affiliates of Japanese Companies by State

Alabama

Munsingwear, Inc. (2)

Alaska

Bering Sea Fisheries, Inc.
Dutch Harbor Seafoods Co., Inc.
Harbor Seafood Co., Inc.
Kodiak King Crab, Inc. (2)
Morpac, Inc.
North Pacific Processors Inc. (3)
Peter Pan Seafoods Inc. (3)
Togiak Fisheries, Inc.
Universal Seafoods Ltd.
Wards Cove Packing Co., Inc. (8)
Western Alaska Fisheries, Inc.
Whitney-Fidalgo Seafoods, Inc. (7)

Arizona

Alumax Inc., Alumax Fabricated Products, Inc.
Chickasha Cotton Oil Co.

Arkansas

Alumax Inc., Kavneer Co., Inc.
Nutrius Inc.

California

Alloy Tool Steel Inc.
Alumax Inc., Alumax Fabricated Products, Inc. (2)
American Industries Co., Inc. (3)
Amnack, Inc.
CTY Corp.
Concise Casting Corp.
Deiva Golf Co.
Forman Industries Inc.
Hitachi Consumer Products of America Inc.
IDEC Systems & Controls Corp.
IKS American Corp.
International Leadframe Corp.
Lafayette Metal Service Corp.
Master Fence Fittings Inc.
Matsushita Electronic Components Co.
Megatool Inc.
Memorex DIC Corp.
Mitsubishi Consumer Electronics America, Inc.
Mitutoyo Corp.
NWC Electronics U.S.A. Inc.
Nutrius Inc.
Orange Bakery Inc.
Pioneer Video, Inc.
Ricoh Electronics, Inc.
S & B International Corp.
SNK Manufacturing Inc.

Sanoh Manufacturing Corp.
Sierracin Glass Transparencies Inc.
Templeck/AFM Inc.
Tokai of America Inc.
Totaku America Corp.
UGM, Inc.
Union Inc.
VHD Disc Manufacturing Co.

Colorado

No additional listings

Connecticut

No additional listings

Delaware

No additional listings

Florida

Key Pharmaceuticals, Inc.
MCI Inc.

Georgia

High Voltage Breakers, Inc.
Kato Spring of Georgia Inc.

Hawaii

Bunmido of Hawaii Ltd.
Daiichiya Love's Bakery Inc.
Honma Golf, Inc.
Rakuyo Ken U.S.A. Inc.

Idaho

No additional listings

Illinois

Tomoe-gawa (U.S.A.) Inc.

Indiana

No additional listings

Iowa

Harnischfeger Corp.

Kansas

No additional listings

Kentucky

ATR Wire and Cable Co.
Nutrius Inc.

Louisiana

No additional listings

Maine

No additional listings

Maryland

No additional listings

Massachusetts

• NEC Information Systems, Inc.

Michigan

• Cast Forge Co.
Nikko Wolverine Inc.

Minnesota

Cathra International Corp.
Munsingwear, Inc.
Thin Film Technology Corp.

Mississippi

Munsingwear, Inc.
Southern Metal Service, Inc.

Missouri

• Bio Kyowa Inc.
• Fotomat Corp.
Kel-Am, Inc.

Montana

No additional listings

Nebraska

• Diamond Plastics Corp.

Nevada

No additional listings

New Hampshire

• Coca-Cola Bottling Co.

New Jersey

MCI Optinix Inc.
• U.S. Fuji Electric Inc.
• US JVC Corp.
USR Optinix Inc.
Orient Shimazaki Chemical Corp.

New Mexico

No additional listings

New York

Economic Salon, Ltd.
Optical Information Systems Inc.
Shindo International, Inc.

North Carolina

Alumax Inc., Alumax Extrusions, Inc.
Fuji Cone Inc.
Munsingwear, Inc. (2)

North Dakota

No additional listings

Ohio

• ALCOA-NEC Communications Corp.
Bellemar Parts Industries Inc.
• Fotomat Corp.
Fujitec Industries, Inc.
LeBlond Makino Machine Tool Co.
Stanley Electric U.S. Co., Inc.

Oklahoma

Chickasha Cotton Oil Co.
Munsingwear, Inc.
North American Brine Resources

Oregon

• Enway Inc.

Pennsylvania

• TYK Swank Refractories Co.
• Toyojama Ltd.

Rhode Island

Machine Specialties Co.

South Carolina

TMS Mills, Inc.

South Dakota

No additional listings

Tennessee

• Bridgestone Tire Manufacturing (U.S.A.), Inc.
Pearl International Corp.

Texas

Alloy Tool Steel of Texas Inc.
Chickasha Cotton Oil Co. (2)
• Diamond Plastics Corp.
First Metals, Inc.

Malco Fence & Wire Co.
Munsingwear, Inc. (2)
Pace Products Inc.
Sony Magnetic Products Inc. of America

Utah

No additional listings

Vermont

No additional listings

Virginia

Amano-International Enzyme Co., Inc.

Washington

Alpha Biochemical Corp.
International Titanium Inc.
Nichino Northwest, Inc.
Nintendo of America, Inc.
Olympic Wood Products Inc.
Pacific Propeller, Inc.
Universal Seafoods Ltd.
Whitney-Fidalgo Seafoods, Inc. (2)

West Virginia

No additional listings

Wisconsin

Harnischfeger Corp. (2)
Munsingwear, Inc.

Wyoming

No additional listings

Puerto Rico

Caribe Isoprene Corp.
Caribe Tuna Inc.
Matsushita Electric of Puerto Rico, Inc.
Neptune Packing Corp.

Previously unlisted plants that went into operation during 1982 or were under construction on December 31, 1982, as well as acquisitions that were finalized in 1982.

Note: A number in parentheses indicates that the relevant company has plants in more than one location in the state.

Fabricated Metal Products

344	Steel processing	Alloy Tool Steel Inc.
	Steel processing	Alloy Tool Steel of Texas Inc.
	Steel processing	First Metals, Inc.
	Steel processing	•Lafayette Metal Service Corp.
	Steel processing	Southern Metal Service, Inc.
3444	Aluminum products for housing aftermarket	Alumax Inc., Alumax Fabricated Products, Inc. (3)
	Sheet-metal ducts	Forman Industries Inc.
3446	Architectural aluminum products	Alumax Inc., Kaunser Co., Inc.
3463	Aluminum wheels/other die-cast aluminum automotive products	•Cast Forge Co.
3494	Expansion valves for automotive air conditioning systems	Pace Products Inc.
3495	Precision springs	•Kato Spring of Georgia Inc.
3496	Chain link	Halco Fence & Wire Co.
	Fittings for metal fencing	Master Fence Fittings Inc.
	Steel cord/bead wire for tires	ATR Wire and Cable Co.

Nonelectric Machinery

3531	Draglines	Harnischfeger Corp.
3532	Mining shovels	Harnischfeger Corp.
3534	Elevators, escalators	Fujitec Industries, Inc.
3536	Hoists	Harnischfeger Corp.
	Hydraulic-truck/rough-terrain cranes, lattice-boom truck/crawler cranes	Harnischfeger Corp.
	Overhead traveling cranes	Harnischfeger Corp. (2)
3537	Material-handling systems	Harnischfeger Corp.
3541	Numerically controlled lathes, machining centers	LeBlond Makino Machine Tool Co.
	Numerical controls	LeBlond Makino Machine Tool Co.
3546	Carbide drills	Megatool Inc.
3559	Components for automatic crimping machinery	•Toyojama Ltd.
3562	Ball bearings	IKS American Corp.
3568	Pulleys	Machine Specialties Co.
3569	Heat-shrinkable plastic material application machinery	Templock/AFN Inc.
3573	Computers/peripheral equipment	•NEC Information Systems, Inc.

Electric Machinery and Electronics

3613	Circuit breakers for power plants/transmission lines	•High Voltage Breakers, Inc.
3621	Motors for phonographs/audio equipment	Matsushita Electric of Puerto Rico, Inc.
3632	Refrigerator parts	Sanoh Manufacturing Corp.
3641	Automotive/motorcycle lighting equipment	Stanley Electric U.S. Co., Inc.
3651	Color television sets	•US JVC Corp.
	Projection color television sets	Hitachi Consumer Products of America Inc.

Projection color television sets

	Recording studio equipment	•Mitsubishi Consumer Electronics America, Inc.
	Stereo speakers, record changers	•MCI Inc.
		Matsushita Electric of Puerto Rico, Inc.
	Paper cones for stereo speakers	Fuji Cone Inc.
3652	Video discs	•Pioneer Video, Inc.
	Video discs	VHD Disc Manufacturing Co.
3662	Satellite television receiving systems	•ALCOA-NEC Communications Corp.
	Video game machines	Nintendo of America, Inc.
3674	Integrated circuits	•Matsushita Electronic Components Co.
	Integrated circuits	•NEC Electronics U.S.A. Inc.
	Semiconductor laser devices/sub-systems	Optical Information Systems Inc.
	Lead frames for integrated circuits	International Leadframe Corp.
	Metal stampings for integrated circuit lead frames	UGH, Inc.
3675	Axial capacitors	CTY Corp.
3676	Thin-film resistive electronic components	Thin Film Technology Corp.
3678	Connectors	Kel-Am, Inc.
	Connectors	SHK Manufacturing Inc.
3679	Audio cassette tapes	Sony Magnetic Products Inc. of America
	Relays, sockets, switches/other electrical industrial components	IDEC Systems & Controls Corp.
3693	X-ray intensifying screens for medical use	MCI Optinix Inc.

Transportation Equipment

3714	Automotive seat assemblies, exhaust silencer systems	Belleme Parts Industries Inc.
3728	Aircraft propellers	•Pacific Propeller, Inc.

Precision, Medical and Photographic Equipment

3829	Calipers, micrometers	Nitutoyo Corp.
3841	Medical diagnostic equipment	Cathra International Corp.
3861	Photographic chemicals	•Fotomat Corp.
	Photo-sensitive drums for copiers	•U.S. Fuji Electric Inc.
	Toner/developer for copiers, duplicators/printers	Memorex DIC Corp.
	Dry toner for copiers	Ricoh Electronics, Inc.
	Toner/developer/other consumable supplies for photocopying industry	Tomogawa (U.S.A.) Inc.

Miscellaneous Manufactures

3931	Musical drums	Pearl International Corp.
3949	Golf clubs	Baiwa Golf Co.
	Golf clubs	Honma Golf, Inc.
3999	Disposable cigarette lighters	•Tokai of America Inc.

•Previously unlisted plants that went into operation during 1982 or were under construction on December 31, 1982, as well as acquisitions that were finalized in 1982.

Note: Product lines are grouped in terms of the Standard Industrial Classification. A number in parentheses indicates that the relevant company produces its product line in more than one location.

Appendix 4: Changes in Previously Listed U.S. Manufacturing Affiliates of Japanese Companies

1. Companies Closed or Sold

<u>Company</u>	<u>Plant Location</u>	<u>Parent</u>	<u>Product Line</u>
Feltloc, Inc.	East Greenwich, RI	Dynic Corp.	Nonwoven cotton fabrics
Marcrest Pacific Co., Inc.	Carson, CA	Marubeni Corp.	Welded steel beams
National Plywood, Inc.	Long Beach, CA	Crest Steel Corp.	Flywood
Rosewood Knitting Mills, Inc.	Martinez, GA	Mitsui & Co., Ltd.	Synthetic-fiber gray goods knitting
SNK Donnette Inc.	Chatsworth, CA	Toyobo Co., Ltd.	Connectors
Sekisui Products, Inc.	Linden, NJ	Shousa Masen Kogyo Co., Ltd.	Polyethylene foam pipe insulation
Topri Inc.	Peachtree City, GA	Sekisui Chemical Co., Ltd.	Printed circuit boards
		Tokyo Print Industry Co., Ltd.	

2. Merged Companies

<u>Old Company</u>	<u>New Company</u>
Erie Technological Products Inc.	Murata Erie North America, Inc.
JFD Electronic Components Inc.	
Murata Corp. of America	

3. Permanently Closed Plants

<u>Company</u>	<u>Plant Location</u>	<u>Parent</u>	<u>Product Line</u>
Alumax Inc., Hillyard	Fontana, CA	Mitsui & Co., Ltd.	Dross recovery
Aluminum Recovery Corp.		Nippon Steel Corp.	
Erie Technological Products Inc.	Erie, PA	AMAX Inc.	Ceramic capacitors
Harnischfeger Corp.	Escanaba, MI	Murata Mfg. Co., Ltd.	Lattice-boom truck/crawler cranes
Munsingwear, Inc.	Ironwood, MI	Kobe Steel, Ltd.	Men's/boys' shirts, underwear, nightwear
		Toyobo Co., Ltd.	
		Descente Ltd.	
Munsingwear, Inc.	Little Falls, MN	C. Itoh & Co., Ltd.	Men's/boys' shirts, underwear, nightwear
		Toyobo Co., Ltd.	
		Descente Ltd.	
Murata Corp. of America	Douglasville, GA	C. Itoh & Co., Ltd.	Ceramic capacitors
		Murata Mfg. Co., Ltd.	

4. Plant Location Changes

<u>Company</u>	<u>Previous Plant Location</u>	<u>New Plant Location</u>
ARI Industries Inc.	Franklin Park, IL	Addison, IL

5. Ownership Changes

<u>Company</u>	<u>Plant Location</u>	<u>Parent</u>	<u>Previous Share</u>	<u>New Share</u>
Coca-Cola Bottling Co.	Middletown, CT	Kirin Brewery Co., Ltd.	50%	100%
Coca-Cola Bottling Co.	Lowell, MA	Kirin Brewery Co., Ltd.	50	100
Coca-Cola Bottling Co.	Laconia, NH	Kirin Brewery Co., Ltd.	50	100
Huano Sake Co.	Berkeley, CA	Takara Shuzo Co., Ltd.	20	60

6. Company Name Changes

<u>Previous Company Name</u>	<u>New Company Name</u>	<u>Plant Location</u>	<u>Product Line</u>
Electronic Arrays Inc.	NEC Electronics U.S.A., Inc.	Mountain View, CA	Integrated circuits
Yamazaki Machinery Corp.	Yamazaki Corp.	Florence, KY	Numerically controlled lathes